

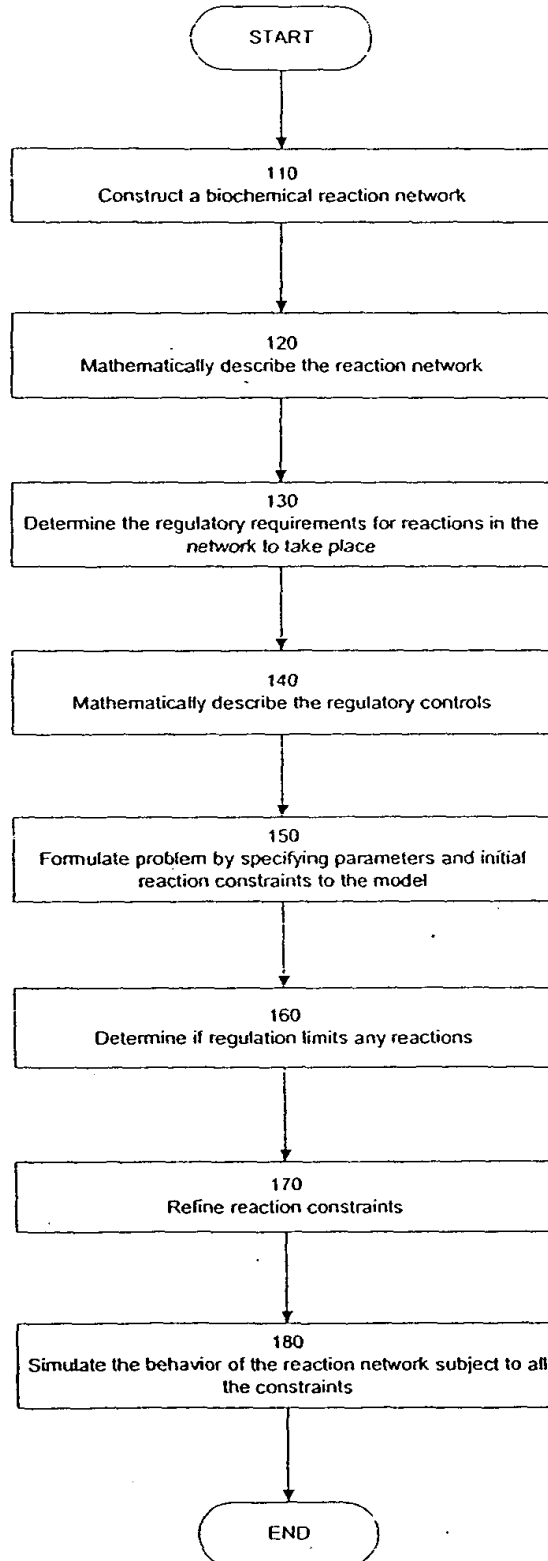
Figure 1**General Process for Developing and Implementing a Regulated Biochemical Reaction Network Model**

Figure 2

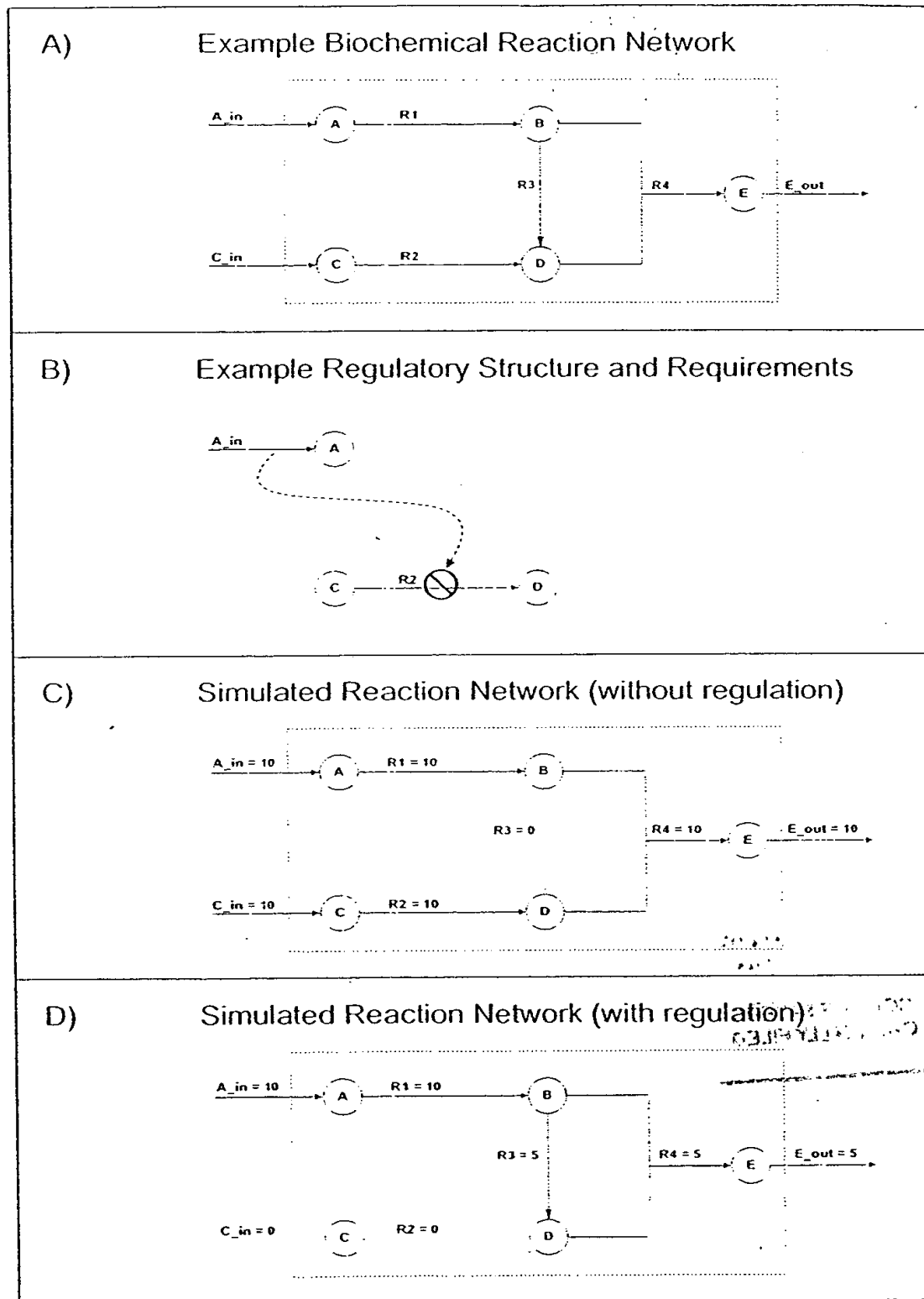
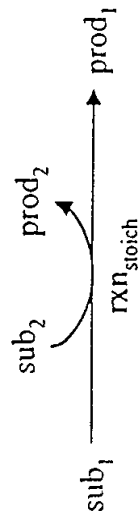


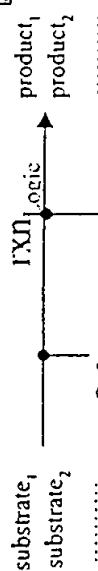
Figure 3

Metabolic Model



If $\text{rxn}_{\text{Logic}} = 1$ then use Activity constraints
 If $\text{rxn}_{\text{Logic}} = 0$ then use Inactivity constraints

Regulatory Model



Protein

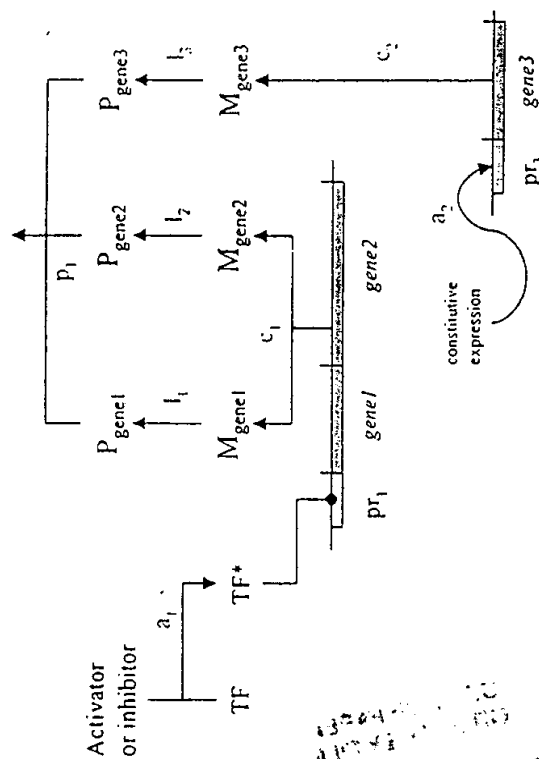
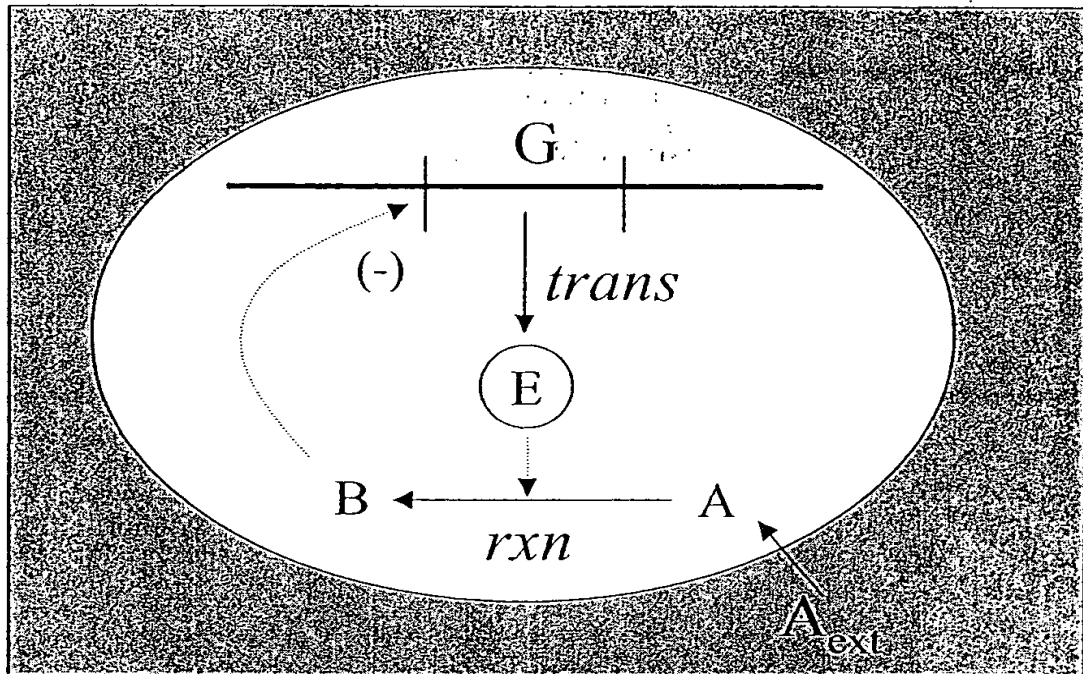


Figure 4



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Figure 5

**A Time-Dependent Implementation of a Regulated
Biochemical Reaction Network Model**

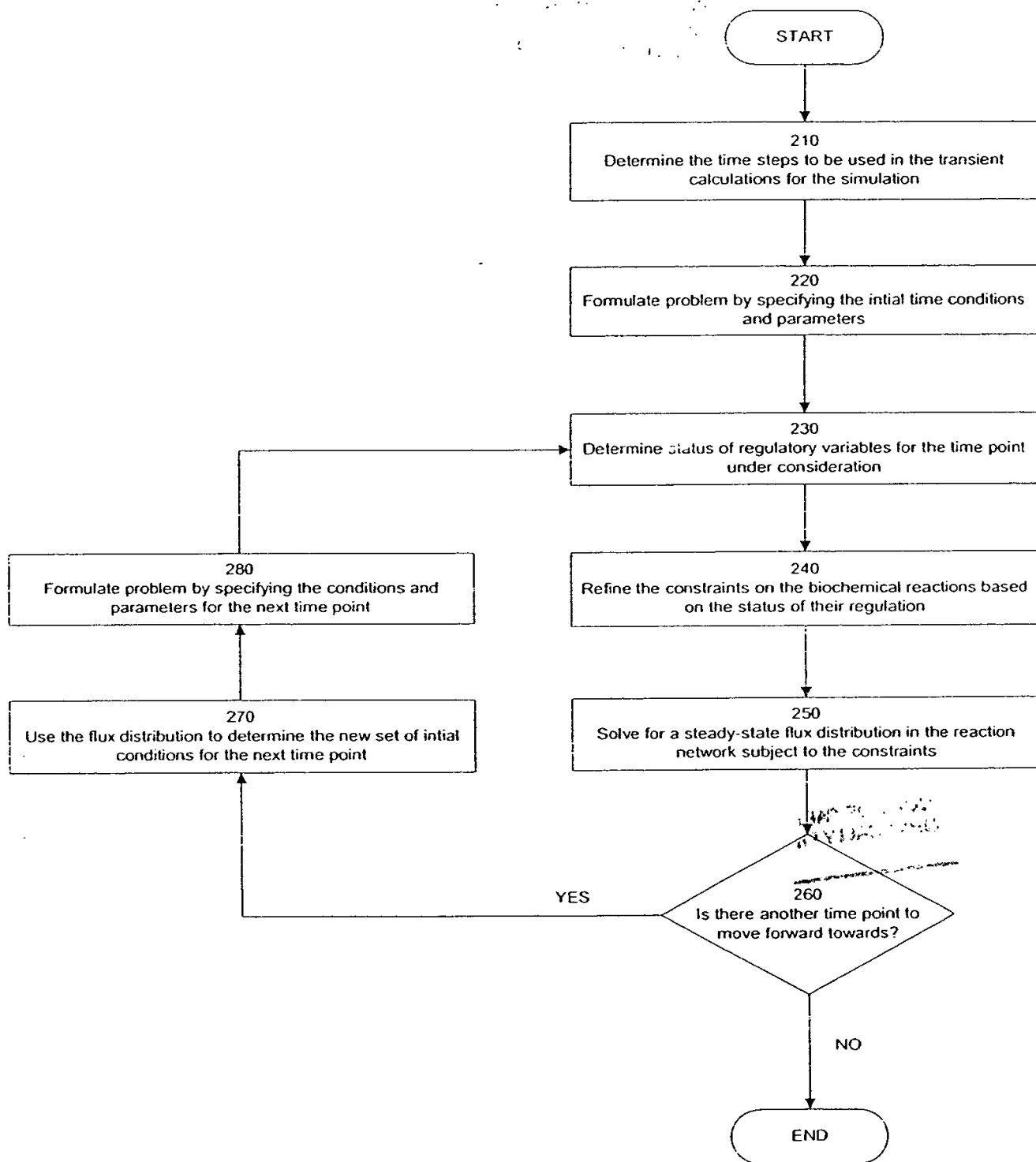


Figure 6

Process for Developing Genome Scale Regulated Models of Metabolism

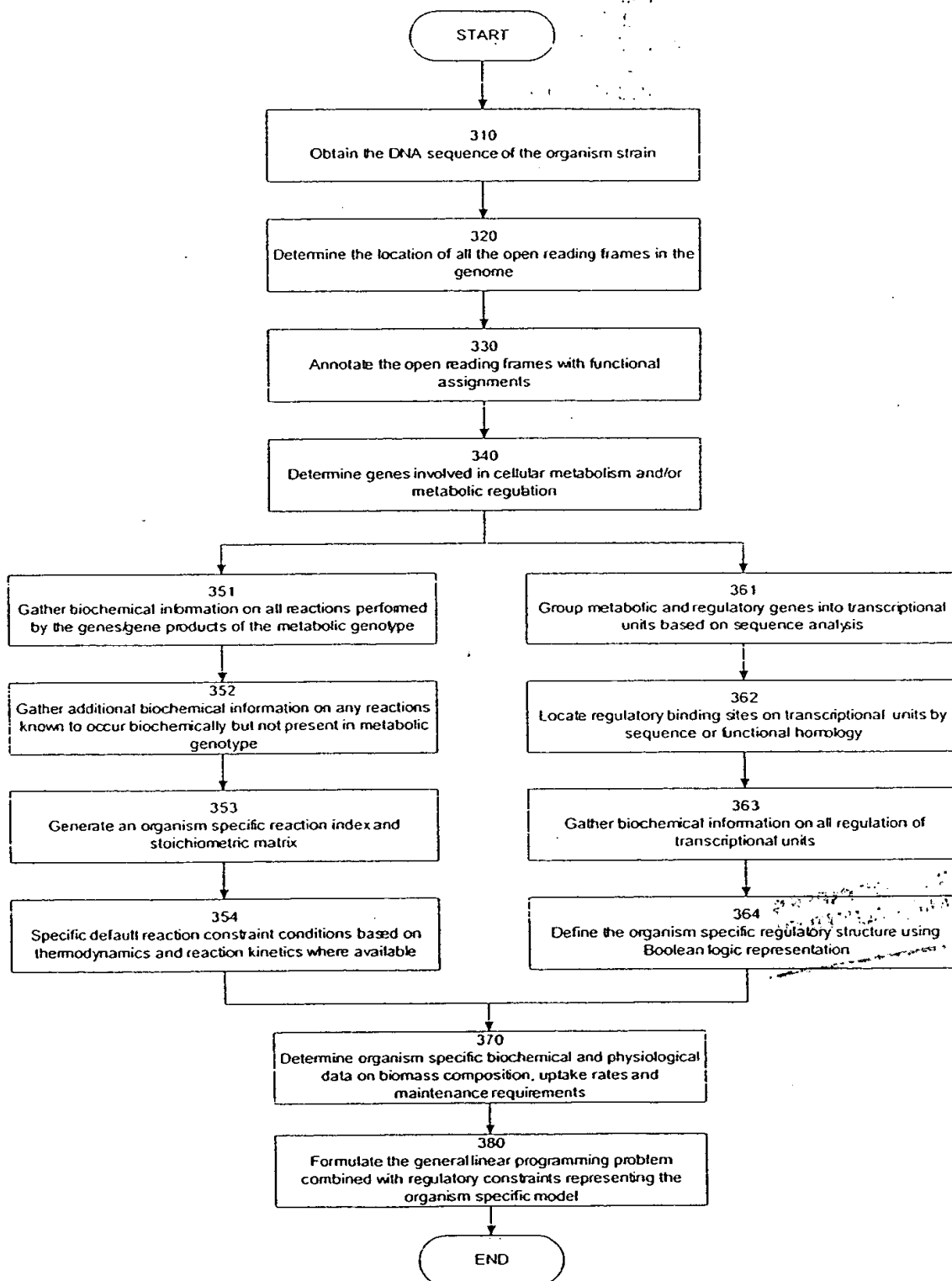
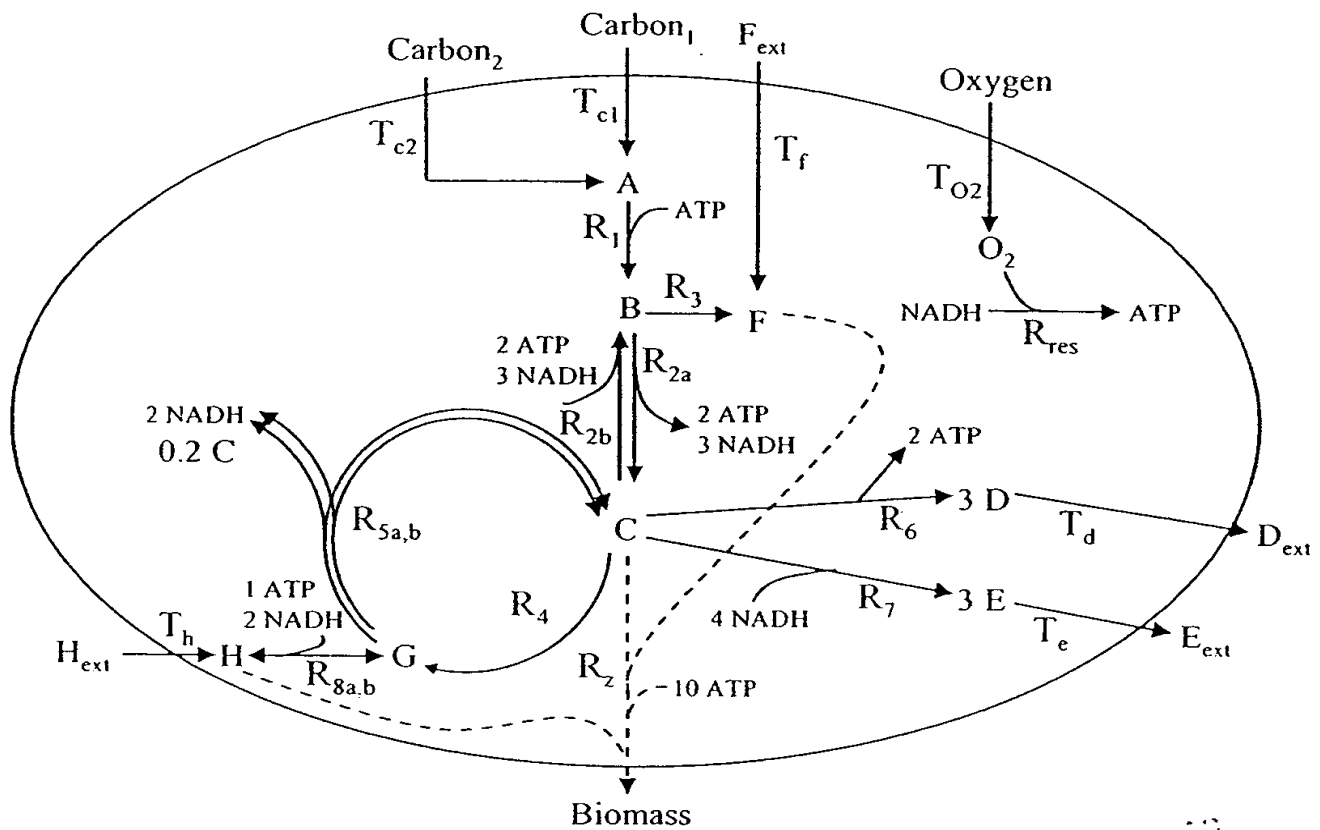
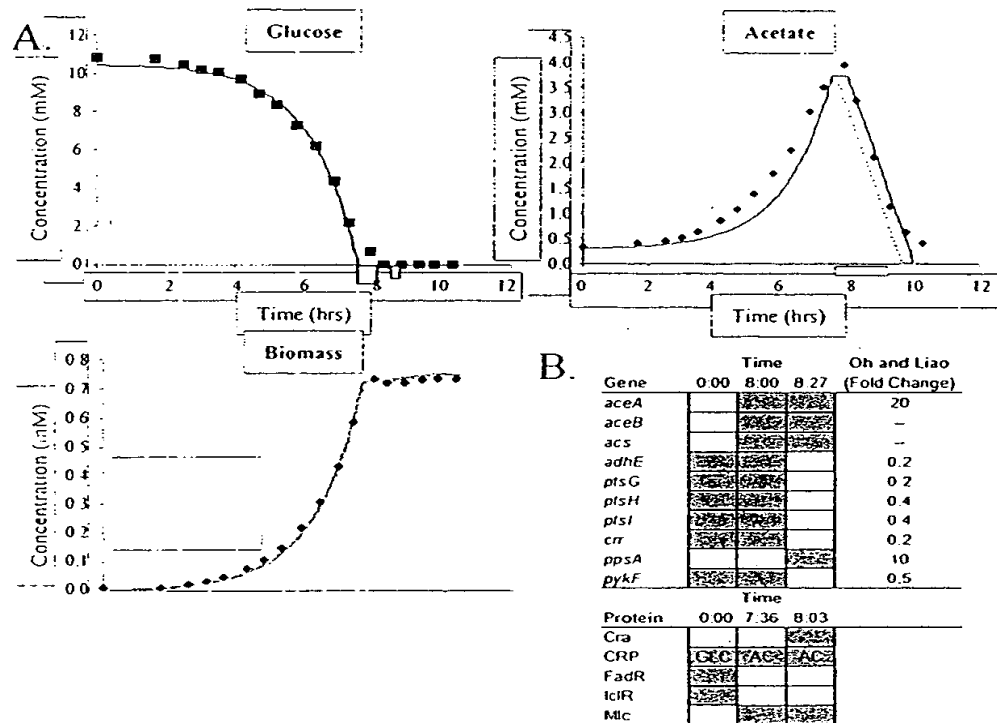


Figure 7



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Figure 8



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Figure 9

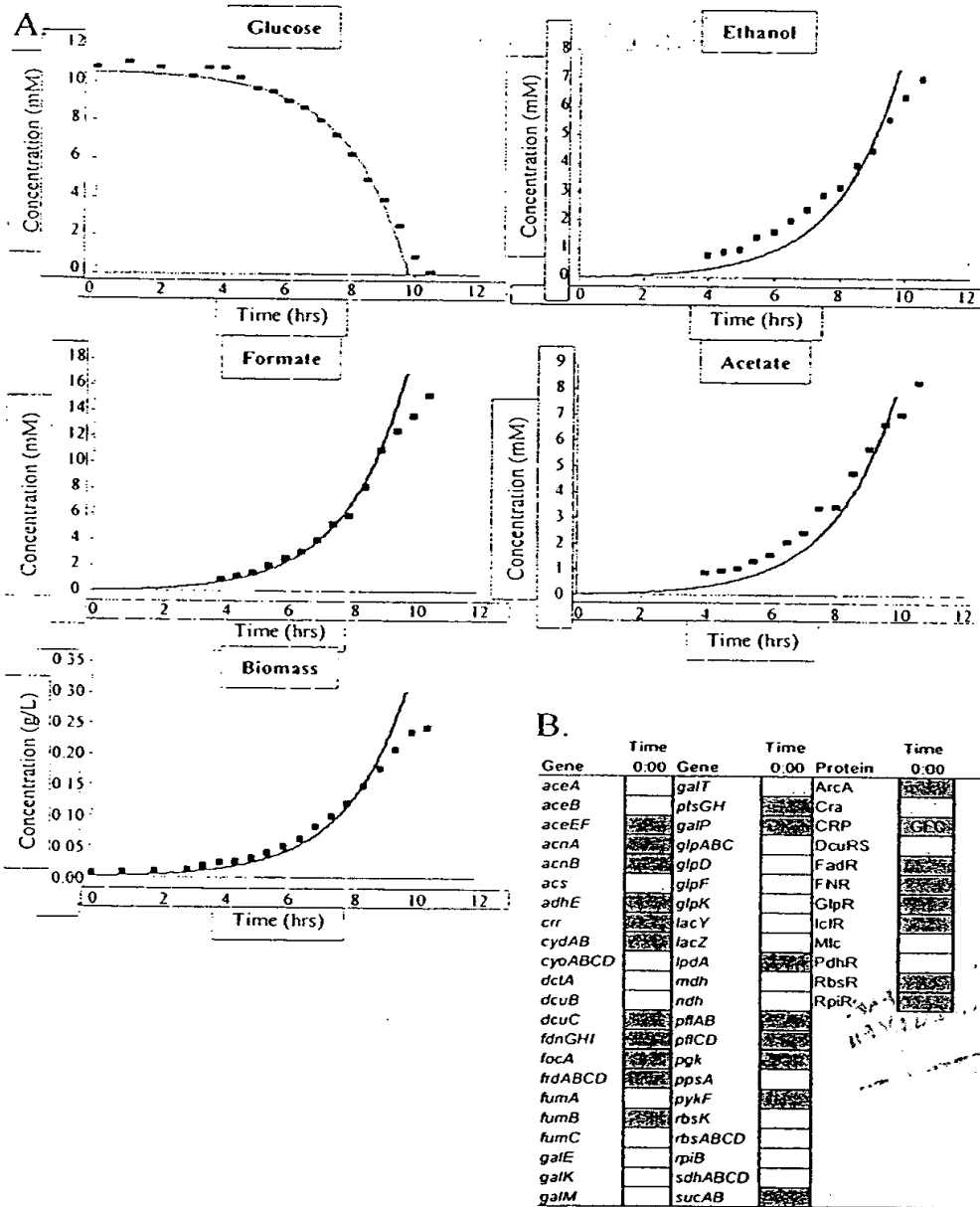


Figure 10

